

Flight Booking System Design a Python program for managing a flight booking system.

1. **Main Function:** Your main function should have the following options for the user:
 - a) Book a Flight
 - b) Review Booking
 - c) Manage Passenger Details
 - d) Exit
2. **Flight Information:** Store flight information in a text file named "flight_data.txt" where each line should have 4 pieces of information: flight number, departure city, destination city, and available seats. Have at least 5 different flights stored initially.
Example:
F001, New York, Los Angeles, 100
F002, London, Paris, 80
F003, Tokyo, Beijing, 120
3. **Book a Flight:** Prompt the user to enter their name, contact number, and the flight they want to book.
 - Validate input data:
 - Ensure the name is at least 1 character long and does not exceed 20 characters.
 - Validate the contact number to be numeric and exactly 10 digits long.
 - Check if the flight date is valid and not in the past.
 - Ensure the same person does not book a same flight twice or book multiple flights on same date
 - Ensure the flight they choose is available and has enough seats.
 - Upon successful booking, update the available seats for that flight.
 - Keep a text file named "bookings.txt" which stores the following information about each booking:
 - Passenger name
 - Contact number
 - Flight booked
 - Booking date
4. **Review a Booking:**
If the user chooses to review a booking by number, ask them to enter their contact number. Display their booking details if found in the "bookings.txt" file.
5. **Manage Passenger Details:** Include following options for administrators
 - a) To view a passenger details. Ask the user enter Passenger's name to display their booking details first then give following options:
 - Update passenger information (name or contact number).
 - Remove a passenger from the booking list.
 - b) To see how many seats have been booked so far for each flight display the flights, seats booked in each flight and remaining seats in a tabular form.

6. Exit: If the user chooses to quit, exit the program.

Validation and Requirements:

- Implement robust validation for user inputs.
- Manage flight seat availability accurately.
- Provide clear and user-friendly prompts and messages.
- Include error handling for potential issues during the booking process.